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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A lithium ion secondary battery comprising:

a positive electrode capable of absorbing and desorbing lithium ion;

a negative electrode capable of absorbing and desorbing lithium ion;

a porous film interposed between said positive electrode and said negative

electrode; and

a non-aqueous electrolyte;

wherein said porous film is adhered to a surface of at least said negative electrode,

said porous film comprises an inorganic filler being alkaline on a surface thereof and a first binder, a content of said first binder in said porous film being 1.5 to 8 parts by weight per 100 parts by weight of said filler,

said first binder comprises a first rubber comprising core-shell type particles of acrylonitrile-acrylate copolymer, said acrylate forming an acidic adhesive surface portion on a surface of the core-shell type particles, including an acrylonitrile unit, said first rubber being water-insoluble and having a decomposition temperature of 250°C or higher,

said negative electrode comprises a negative electrode active material capable of absorbing and desorbing lithium ion and a second binder, and

said second binder includes a second rubber particle and a water-soluble polymer.

2. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said first rubber has a crystalline melting point of 250 °C or more.

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- 3. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said first rubber includes a polyacrylonitrile chain.
 - 4. (Cancelled)
- 5. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said water-soluble polymer includes a methylcellulose unit.
- 6. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said second rubber particle includes a styrene unit and a butadiene unit.
- 7. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a content of said second binder in said negative electrode is 1.5 to 3 parts by weight per 100 parts by weight of said negative electrode active material.
- 8. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises an inorganic oxide.
- 9. (Currently amended) The lithium ion secondary battery in accordance with claim 8, wherein a surface of said inorganic oxide is alkaline and has a BET specific surface area of 0.9 m²/g or more.
- 10. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic oxide includes at least one selected from the group consisting of alumina and titanium oxide.
- 11. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a surface roughness of said porous film is less than a surface roughness of an electrode surface to which said porous film is adhered to.

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12. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises a mixture of a large particle group and a small particle group, and an average particle size A of said large particle group and an average particle size B of said small particle group satisfy the formula (1):

 $0.05 \le B/A \le 0.25$.

- 13. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said positive electrode and said negative electrode are wound with said porous film interposed therebetween.
- 14. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a thickness of said porous film is
 - $0.5 \mu m$ or more and 20 μm or less.
- 15. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a separator is further interposed between said positive electrode and said negative electrode.
- 16. (Original) The lithium ion secondary battery in accordance with claim 15, wherein a thickness of said separator is 8 μm or more and 30 μm or less.